

1. Component NSA/CSS Defense	FY 2004 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 2003		
3. INSTALLATION AND LOCATION Fort George G. Meade, Maryland		4. PROJECT TITLE Critical Utility Control Phase 2A		
5. PROGRAM ELEMENT NFIP 0301011G	6. CATEGORY CODE 821	7. PROJECT NUMBER 4004		
8. PROJECT COST (\$000) 1,842				
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITY</u>				
Software, Integration & Hardware	LS			1,579
Installation	LS			(702)
<u>SUPPORTING FACILITIES</u>				
System Start-up and Training	LS			(877)
				184
ESTIMATED CONTRACT COST				1,754
CONTINGENCY PERCENT (5.00%)				88
TOTAL REQUEST				1,842
TOTAL REQUEST (ROUNDED)				1,850
INSTALLED EQT – OTHER APPROPRIATIONS				(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION This project extends the monitoring and control capabilities of the Supervisory Control And Data Acquisition system (SCADA) beyond previous upgrades to additional power systems, which support critical mission functions within the Headquarters complex. The project will include the capability to monitor and control low voltage substations that directly support key Agency operational areas in the Headquarters (HQ), Tordella, backup generator assets, and Operations (OPS) buildings #1, 2A and 2B. A load-shedding scheme shall be provided to allow site-generated power to be distributed to the most critical locations should commercial site power be lost. The system will include redundant hardware and communications links in order to maximize system availability. Integration with existing SCADA will be included. This project will be constructed within existing building spaces. The system will be comprised of hardware, software, integrated systems, graphic computer screens, locally installed interface devices, power meters, communication hubs, fiber optic cable, factory acceptance testing, hardware and software documentation, training, and miscellaneous supporting system components. Proprietary items may be used where necessary to maintain compatibility of existing systems and to reduce maintenance and future repair expense.				
11. <u>REQ</u> : N/A Adequate: N/A Substandard: N/A <u>PROJECT</u> : This project will provide the capability to monitor and control low voltage substations that directly support several key Agency operational areas. (Current Mission) <u>REQUIREMENT</u> : This project is required to increase the reliability and availability of utility systems supporting critical mission functions in key operational areas within the Headquarters complex.				

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11. REQUIREMENT (Con't):

CURRENT SITUATION: The aging nature of our facilities, combined with the increase in complexity of our utility systems, has produced increased system outages. It is highly probable that without remote monitoring and controlling capability, that mission related systems will experience an ever increasing number of outages - both in duration and frequency. As the utility systems are currently configured, they are not capable of providing reliable support to mission systems. When a problem occurs, personnel must make a field analysis of the situation and physically throw switches, breakers, etc. Little remote analysis can be done and no remote operational capability exists.

IMPACT IF NOT PROVIDED: Without Critical Utility Control Phase II, critical mission utilities will continue to experience a decrease in utility systems reliability and availability, which support key mission operations. The SCADA load shed scheme will not be fully implemented and capability to distribute site-generated power will be compromised. Our Facilities Control Center will not have real time access to data concerning the status of electric utilities supporting critical mission elements.

ADDITIONAL:

Alternate methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement.

Related Projects/Systems: This project is the third in a series of projects. The first two projects are FY 1995 Critical Substation Control and FY 1996 Critical Utility Control, Phase I.

12. SUPPLEMENTAL DATA

A. Estimated Design Data

1. Status

a. Date Design Started	<u>Oct 2002</u>
b. Percent Completed as of January 1, 2003	<u>35%</u>
c. Date 35 % Designed	<u>Jan 2003</u>
d. Date Design Completed	<u>Jun 2003</u>
e. Type of Design Contract	Design-Bid-Build

2. Basis

a. Standard or Definite Design	NO N/A
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b. Where Design Was Most Recently Used
